



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/826,361B

DATE: 08/21/2003

TIME: 16:25:18

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Input Set : A:\2355-124 Seq List.txt

Output Set: N:\CRF4\08212003\H826361B.raw

ENTERED

P. 6

3 <110> APPLICANT: Mosselman, Sietse
 4 Dijkema, E. Ir.
 5 <120> TITLE OF INVENTION: Novel Estrogen Receptor
 6 <130> FILE REFERENCE: 0/96193 US

C--> 10 <140> CURRENT APPLICATION NUMBER: US/08/826,361B
 C--> 10 <141> CURRENT FILING DATE: 1997-03-26

10 <150> PRIOR APPLICATION NUMBER: US 08/826,361
 11 <151> PRIOR FILING DATE: 1997-03-26
 12 <150> PRIOR APPLICATION NUMBER: EP 96205294.3
 13 <151> PRIOR FILING DATE: 1996-11-22
 14 <150> PRIOR APPLICATION NUMBER: EP 96200820.7
 15 <151> PRIOR FILING DATE: 1996-03-26
 16 <160> NUMBER OF SEQ ID NOS: 32
 17 <170> SOFTWARE: PatentIn version 3.0
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 1434
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Homo sapiens
 22 <210> SEQUENCE: 1

10	atgaatttccg	gaatttccag	caatttccact	aacttgggaag	gtgggcoctgg	tgggcagagcc	60
21	aaagccccc	atgtgtgtgtg	gccaacacct	gggacattt	ctcctttagt	ggtccatcgc	120
32	agtttatcc	atctgtttgc	ggtaacctcaa	aagagtccct	ggtgtgaagc	aagatcgccta	180
43	gaacacacot	taccttcaa	cajajagaca	ctgaaaaggc	aggttagtgg	gaacccgttgc	240
54	gccaagccctg	ttactgttcc	aggttcaaaag	agggatgctc	aacttcctggc	tgtctggagc	300
65	gattacgcat	cgggatattca	ctatggagtc	tggctgtgtg	aagpatgtaa	ggcctttttt	360
76	aaagaagca	ttcaaggaca	taattattat	atttgtccag	ctacaaatca	gtgtacaatc	420
87	gataaaaacc	ggcgcaagag	ctgcccaggcc	tgcgcacttc	ggaggtgtta	cgaagtggga	480
98	atggtgaagt	gtggctcccg	caapagagaga	tgtgggtacc	gccttgtggc	gagacagaga	540
109	atggccgaag	agcagttgca	ctgtgcccgc	aaggccaaag	gaagtggggc	ccacgcggcc	600
120	atggtggggg	agctgttgtt	cgaccccctg	agcccagagc	agctagtgtt	caccctctctg	660
131	agagctgagc	cgcctcttgt	ccgtatcaag	cgcctccagt	cgcctctccac	cgaggccctcc	720
142	atgatgatgt	ccctgaccaa	gttggccgac	aaggagtttg	tacacatgat	cagctggggc	780
153	aaagaagattc	ccggctttgt	cgagctccag	ctgttcgacc	aagtggggct	cttggagagc	840
164	tgttggatgg	aggtgttaat	gatggggctg	atgtggcgct	caattgaaca	ccccgggcaag	900
175	ctcattctttg	ctccagttct	tgttttggac	agggatgagg	ggaaatgggt	agaagggaatt	960
186	ctggaaatct	ttgaacttgt	ctgtgcaact	aactcaaggc	ttccagaggt	aaaaactccaa	1020
197	cacaaagaat	atctcttgtt	caaggccatg	atcctgctca	attccagtat	gtacccctctg	1080
208	gtccacagcga	cccaggttgc	tgacagcagc	cgggaagctgg	ctcacttgct	gaaagccgtg	1140
219	acccatgctt	tgttttttgt	gatgtcccaag	aggggcacat	cctccacagca	gcaatccatg	1200
230	cgcctggcta	aactctgtat	ctctctgtcc	caagtcaggc	atgcgagtaa	caagggcctg	1260
241	gascattctgc	tcaacatgaa	gtgcacaaat	gtggtccccag	tgtatgacct	gctgctggag	1320
252	atgctgaatg	cccacgttgt	tgcctgggtg	aagtcctcca	tcaaggggtc	cagatgcagc	1380
263	ccggccagagg	acagtaaaag	aaagaygggc	tcccagaacc	cacagttcca	gtga	1434

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Input Set : A:\2355-124 Seq List.txt

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77 <210> SEQ ID NO: 2

78 <211> LENGTH: 1151

79 <212> TYPE: DNA

80 <213> ORGANISM: Homo sapiens

81 <400> SEQUENCE: 2

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83 atgaattaca gaattccacg caatgtcaat aacttgaag gtgggcoctg tgggagagac 60
85 acaacccca: atgtttgtg gccaacacat gggaaccttt ctcttttagt ggtccatcgc 120
87 caattttcac atctgtatgc ggaacctcaa aagagtcctt ggtgtgaagc aagatcgcta 180
89 gaaacccac: taattgtaaa cagagagaca ctgaaaagga aggttagtgg gaacgttgc 240
91 gcaacccct: ttactgttcc aggttcaaaag agggatgtct actctgcgcg tctctgcgcg 300
93 gtttaagca: cgttatatca ctatggagtc tggctgtgtg aaggatgtac ggcctttttt 360
95 aaaaagaca: tttaaggaca taatgattat attgtccag ctacaaatca gtgtacatc 420
97 gataaaacc: ggcacagag ctgcacaggc tgcgcacttc ggaagtgtta cgaagtggga 480
99 atgttgaag: gtgtctcccg gagagagaga tctgggtacc gccttctgcg gagacagaga 540
101 acttccgag: agagctgca ctgtgcgggc aaggccaaga gaagtggcgg ccacggcgcc 600
103 caattggcg: agtgtctgt ggagggcctg agcccagagc agctagtgt caccctcctg 660
105 gagctgga: cctcccatgt gctgacacgc cggcccagtg cggccctcac cgagggctcc 720
107 atctatgat: cctgaacca gttggccgac aaggagtgtg tacacatgat cagctgggac 780
109 acaagattc: caggtttgt ggagctcagc ctgttcagac aagtgcggt ctctggagagc 840
111 tcttgatag: aattgttaat gatggggctg atgtggcgt caattgaaca ccccggcaag 900
113 atctcttgg: cccagatct tgttctggac agggatgagg gaaaatggt agaagggaatt 960
115 ctggaat: tttaaatgt cctggcaact acttcaaggt ttogagagtt aaaactccaa 1020
117 caaagaa: atctctgtgt caaggccatg atctgtctca attccagtat gtaacctctg 1080
119 ctcaagaga: cctaggatgc tgacagcagc cgggaagctg ctcaactgt gaaagcctg 1140
121 cccatggt: tggttgggt gattggcaag agcgcatct cctcccagca gcaatccatg 1200
123 cctcgggt: aacccctgat gctcctgtcc caagtccagc atgcgaggtg a 1261

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125 <210> SEQ ID NO: 3

126 <211> LENGTH: 66

127 <212> TYPE: PRT

128 <213> ORGANISM: Homo sapiens

129 <400> SEQUENCE: 3

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131 Cys Ala Val Cys Ser Asp Tyr Ala Ser Gly Tyr His Tyr Gly Val Trp
132 1 5 10 15
134 Ser Cys Glu Gly Cys Lys Ala Phe Phe Lys Arg Ser Ile Gln Gly His
135 20 25 30
137 Asn Asp Tyr Ile Cys Pro Ala Thr Asn Gln Cys Thr Ile Asp Lys Asn
138 35 40 45
140 Arg Arg Lys Ser Cys Gln Ala Cys Arg Leu Arg Lys Cys Tyr Glu Val
141 50 55 60
143 Gly Met
144 65

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145 <210> SEQ ID NO: 4

146 <211> LENGTH: 233

147 <212> TYPE: PRT

148 <213> ORGANISM: Homo sapiens

149 <400> SEQUENCE: 4

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151 Leu Val Leu Thr Leu Leu Glu Ala Glu Pro Pro His Val Leu Ile Ser
152 1 5 10 15
154 Arg Pro Ser Ala Pro Phe Thr Glu Ala Ser Met Met Met Ser Leu Thr

```

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```

150          20          25          30
151 Lys Leu Ala Asp Lys Glu Leu Val His Met Ile Ser Trp Ala Lys Lys
152          35          40          45
153 Ile Pro Gly Phe Val Glu Leu Ser Leu Phe Asp Gln Val Arg Leu Leu
154          50          55          60
155 Glu Ser Cys Trp Met Glu Val Leu Met Met Gly Leu Met Trp Arg Ser
156          65          70          75          80
157 Ile Asp His Pro Gly Lys Leu Ile Phe Ala Pro Asp Leu Val Leu Asp
158          85          90          95
159 Arg Asp Glu Gly Lys Cys Val Glu Gly Ile Leu Glu Ile Phe Asp Met
160          100          105          110
161 Leu Leu Ala Thr Thr Ser Arg Phe Arg Glu Leu Lys Leu Gln His Lys
162          115          120          125
163 Glu Tyr Leu Cys Val Lys Ala Met Ile Leu Leu Asn Ser Ser Met Tyr
164          130          135          140
165 Pro Leu Val Thr Ala Thr Gln Asp Ala Asp Ser Ser Arg Lys Leu Ala
166          145          150          155          160
167 His Leu Leu Asn Ala Val Thr Asp Ala Leu Val Trp Val Ile Ala Lys
168          165          170          175
169 Ser Gly Ile Ser Ser Gln Gln Gln Ser Met Arg Leu Ala Asn Leu Leu
170          180          185          190
171 Met Leu Leu Ser His Val Arg His Ala Ser Asn Lys Gly Met Glu His
172          195          200          205
173 Leu Leu Asn Met Lys Cys Lys Asn Val Val Pro Val Tyr Asp Leu Leu
174          210          215          220
175 Leu Glu Met Leu Asn Ala His Val Leu
176          225          230
177 -2108- SEQ ID NO: 5
178 -2110- LENGTH: 477
179 -2112- TYPE: PRT
180 -2113- ORGANISM: Homo sapiens
181 -2400- SEQUENCE: 5
182 Met Asn Tyr Ser Ile Pro Ser Asn Val Thr Asn Leu Glu Gly Gly Pro
183          5          10          15
184 Gly Arg Gln Thr Thr Ser Pro Asn Val Leu Trp Pro Thr Pro Gly His
185          20          25          30
186 Leu Ser Pro Leu Val Val His Arg Gln Leu Ser His Leu Tyr Ala Glu
187          35          40          45
188 Pro Gln Lys Ser Pro Trp Cys Glu Ala Arg Ser Leu Glu His Thr Leu
189          50          55          60
190 Pro Val Asn Arg Glu Thr Leu Lys Arg Lys Val Ser Gly Asn Arg Cys
191          65          70          75          80
192 Ala Ser Pro Val Thr Gly Pro Gly Ser Lys Arg Asp Ala His Phe Cys
193          85          90          95
194 Ala Val Cys Ser Asp Tyr Ala Ser Gly Tyr His Tyr Gly Val Trp Ser
195          100          105          110
196 Cys Glu Gly Cys Lys Ala Phe Phe Lys Arg Ser Ile Gln Gly His Asn
197          115          120          125
198 Asp Tyr Ile Cys Pro Ala Thr Asn Gln Cys Thr Ile Asp Lys Asn Arg

```

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132      133      135      140
130 Arg Lys Ser Cys Gln Ala Cys Arg Leu Arg Lys Cys Tyr Glu Val Gly
131 141      150      155      161
132 Met Val Lys Cys Gly Ser Arg Arg Glu Arg Cys Gly Tyr Arg Leu Val
133      165      170      175
134 Arg Arg Gln Arg Ser Ala Asp Glu Gln Leu His Cys Ala Gly Lys Ala
135      180      185      190
136 Lys Arg Ser Gly Gly His Ala Pro Arg Val Arg Glu Leu Leu Asp
137      195      200      205
138 Ala Leu Ser Pro Gln Gln Leu Val Leu Thr Leu Leu Glu Ala Glu Pro
139      210      215      220
140 Pro His Val Leu Ile Ser Arg Pro Ser Ala Pro Phe Thr Glu Ala Ser
141      225      230      235      240
142 Met Met Met Ser Leu Thr Lys Leu Ala Asp Lys Glu Leu Val His Met
143      245      250      255
144 Ile Ser Trp Ala Lys Lys Ile Pro Gly Phe Val Glu Leu Ser Leu Phe
145      260      265      270
146 Asp Gln Val Arg Leu Leu Glu Ser Cys Trp Met Glu Val Leu Met Met
147      275      280      285
148 Gly Leu Met Trp Arg Ser Ile Asp His Pro Gly Lys Leu Ile Phe Ala
149      290      295      300
150 Pro Asp Leu Val Leu Asp Arg Asp Glu Gly Lys Cys Val Glu Gly Ile
151      305      310      315      320
152 Leu Glu Ile Phe Asp Met Leu Leu Ala Thr Thr Ser Arg Phe Arg Glu
153      325      330      335
154 Leu Lys Leu Gln His Lys Glu Tyr Leu Cys Val Lys Ala Met Ile Leu
155      340      345      350
156 Leu Asn Ser Ser Met Tyr Pro Leu Val Thr Ala Thr Gln Asp Ala Asp
157      355      360      365
158 Ser Ser Arg Lys Leu Ala His Leu Leu Asn Ala Val Thr Asp Ala Leu
159      370      375      380
160 Val Trp Val Ile Ala Lys Ser Gly Ile Ser Ser Gln Gln Gln Ser Met
161      385      390      395      400
162 Arg Leu Ala Asn Leu Met Leu Leu Ser His Val Arg His Ala Ser
163      405      410      415
164 Asn Lys Gly Met Glu His Leu Leu Asn Met Lys Cys Lys Asn Val Val
165      420      425      430
166 Pro Val Tyr Asp Leu Leu Leu Glu Met Leu Asn Ala His Val Leu Arg
167      435      440      445
168 Gly Cys Lys Ser Ser Ile Thr Gly Ser Glu Cys Ser Pro Ala Glu Asp
169      450      455      460
170 Ser Lys Ser Lys Glu Gly Ser Gln Asn Pro Gln Ser Gln
171      465      470      475
172 <110> SEQ ID NO: 6
173 <111> LENGTH: 416
174 <112> TYPE: PRT
175 <113> ORGANISM: Homo sapiens
176 <400> SEQUENCE: 6
177 Met Asn Tyr Ser Ile Pro Ser Asn Val Thr Asn Leu Glu Gly Gly Pro

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```

300 1          5          10          15
301 Gly Arg Gln Thr Thr Ser Pro Asn Val Leu Trp Pro Thr Pro Gly His
302          20          25          30
303 Leu Ser Pro Leu Val Val His Arg Gln Leu Ser His Leu Tyr Ala Glu
304          35          40          45
305 Pro Gln Lys Ser Pro Trp Cys Glu Ala Arg Ser Leu Glu His Thr Leu
306          50          55          60
307 Pro Val Asn Arg Glu Thr Leu Lys Arg Lys Val Ser Gly Asn Arg Cys
308          65          70          75          80
309 Ala Ser Pro Val Thr Gly Pro Gly Ser Lys Arg Asp Ala His Phe Cys
310          85          90          95
311 Ala Val Cys Ser Asp Tyr Ala Ser Gly Tyr His Tyr Gly Val Trp Ser
312          100          105          110
313 Cys Glu Gly Cys Lys Ala Phe Phe Lys Arg Ser Ile Gln Gly His Asn
314          115          120          125
315 Asp Tyr Ile Cys Pro Ala Thr Asn Gln Cys Thr Ile Asp Lys Asn Arg
316          130          135          140
317 Arg Lys Ser Cys Gln Ala Cys Arg Leu Arg Lys Cys Tyr Glu Val Gly
318          145          150          155          160
319 Met Val Lys Cys Gly Ser Arg Arg Glu Arg Cys Gly Tyr Arg Leu Val
320          165          170          175
321 Arg Arg Gln Arg Ser Ala Asp Glu Gln Leu His Cys Ala Gly Lys Ala
322          180          185          190
323 Lys Arg Ser Gly Gly His Ala Pro Arg Val Arg Glu Leu Leu Leu Asp
324          195          200          205
325 Ala Leu Ser Pro Gln Gln Leu Val Leu Thr Leu Leu Glu Ala Glu Pro
326          210          215          220
327 Pro His Val Leu Ile Ser Arg Pro Ser Ala Pro Phe Thr Glu Ala Ser
328          225          230          235          240
329 Met Met Met Ser Leu Thr Lys Leu Ala Asp Lys Glu Leu Val His Met
330          245          250          255
331 Ile Ser Trp Ala Lys Lys Ile Pro Gly Phe Val Glu Leu Ser Leu Phe
332          260          265          270
333 Asp Gln Val Arg Leu Leu Glu Ser Cys Trp Met Glu Val Leu Met Met
334          275          280          285
335 Gly Leu Met Trp Arg Ser Ile Asp His Pro Gly Lys Leu Ile Phe Ala
336          290          295          300
337 Pro Asp Leu Val Leu Asp Arg Asp Glu Gly Lys Cys Val Glu Gly Ile
338          305          310          315          320
339 Leu Glu Ile Phe Asp Met Leu Leu Ala Thr Thr Ser Arg Phe Arg Glu
340          315          320          325
341 Leu Lys Leu Gln His Lys Glu Tyr Leu Cys Val Lys Ala Met Ile Leu
342          330          335          340
343 Leu Asn Ser Ser Met Tyr Pro Leu Val Thr Ala Thr Gln Asp Ala Asp
344          345          350          355
345 Ser Ser Arg Lys Leu Ala His Leu Leu Asn Ala Val Thr Asp Ala Leu
346          360          365          370
347 Val Trp Val Ile Ala Lys Ser Gly Ile Ser Ser Gln Gln Gln Ser Met
348          375          380          385          390          395          400

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RAW SEQUENCE LISTING ERROR SUMMARY
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Input Set : A:\2355-124 Seq List.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 3,15,18
Seq#:8; N Pos. 12,18,24,27

VERIFICATION SUMMARY

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Input Set : A:\2355-124 Seq List.txt

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0